		Law I Mark	l np	I Time stars
L Number	Hits	Search Text	DB	Time stamp
1	0	gole-anandin.	USPAT; US-PGPUB	2003/10/07 10:05
2	1	gole-anand-\$.in.	USPAT;	2003/10/07
3	2	kumar-ashavaniin.	US-PGPUB USPAT;	10:07 2003/10/07
		Kumar-ashavaniin.	US-PGPUB	10:07
4	1	phadtare-sumantin.	USPAT; US-PGPUB	2003/10/07 10:08
5	6	sastry-muraliin.	USPAT;	2003/10/07
6	548	glucose same (gold or auric or	US-PGPUB USPAT;	10:09 2003/10/07
0	340	chloroaurate)	US-PGPUB	10:09
7	8	(glucose same (gold or auric or chloroaurate)) same lipid\$1	USPAT; US-PGPUB	2003/10/07
8	124	(glucose same (gold or auric or	USPAT;	2003/10/07
		chloroaurate)) same (substrate\$1 or film\$1)	US-PGPUB	10:16
9	30	((glucose same (gold or auric or	USPAT;	2003/10/07
		chloroaurate)) same (substrate\$1 or film\$1)) same color\$8	US-PGPUB	10:20
10	3	(glucose same (gold or auric or	USPAT;	2003/10/07
11	8	chloroaurate)) same (test adj strip\$1) (glucose same (gold or auric or	US-PGPUB USPAT;	10:21 2003/10/07
		chloroaurate)) and 436/95.ccls.	US-PGPUB	10:37
12	1	(glucose same (gold or auric or chloroaurate)) same octadecylamine	USPAT; US-PGPUB	2003/10/07
13	2	(glucose same (gold or auric or	USPAT;	2003/10/07
14	2	chloroaurate)) and octadecylamine (glucose same (gold or auric or	US-PGPUB USPAT;	10:38
		chloroaurate)) same arachidic	US-PGPUB	10:39
15	0	(glucose same (gold or auric or chloroaurate)) same octadecanol	USPAT; US-PGPUB	2003/10/07
16	0	(glucose same (gold or auric or	USPAT;	2003/10/07
		chloroaurate)) same phosphatidicylethanolamine	US-PGPUB	10:39
17	8926	gold same color\$8	USPAT; US-PGPUB	2003/10/07
18	2556	(gold same color\$8) same (substrate\$1 or	USPAT;	2003/10/07
19	246	<pre>film\$1 or strip\$1) ((gold same color\$8) same (substrate\$1 or</pre>	US-PGPUB USPAT;	10:40
19	240	film\$1 or strip\$1)) and 436/\$.ccls.	US-PGPUB	10:40
20	10053	glucose same color\$8	USPAT; US-PGPUB	2003/10/07
21	1947	(glucose same color\$8) same (substrate\$1	USPAT;	2003/10/07
22	2440	or film\$1 or strip41) (glucose same color\$8) same (substrate\$1	US-PGPUB USPAT;	10:40
:		or film\$1 or strip\$1)	US-PGPUB	10:41
23	534	((glucose same color\$8) same (substrate\$1 or film\$1 or strip\$1)) and 436/\$.ccls.	USPAT; US-PGPUB	2003/10/07 10:41
24	31	((glucose same color\$8) same (substrate\$1	USPAT;	2003/10/07
	•	or film\$1 or strip\$1)) same (gold or auric or chloroaurate)	US-PGPUB	10:41
25	8	(((glucose same color\$8) same	USPAT;	2003/10/07
		(substrate\$1 or film\$1 or strip\$1)) same (gold or auric or chloroaurate)) and	US-PGPUB	10:44
26	23	436/\$.ccls.	USPAT;	2003/10/07
20	23	((glucose same colors) same (substrate\$1 or film\$1 or strip\$1)) same	US-PGPUB	10:45
		(gold or auric or chloroaurate)) not ((((glucose same color\$8) same		
- (1)		(substrate\$1 or film\$1 or strip\$1)) same		
		(gold or auric or chloroaurate)) and 436/\$.ccls.)		
27	71	((glucose same color\$8) same (substrate\$1	USPAT;	2003/10/07
28	6	or film\$1 or strip\$1)) and 436/95.ccls. (((glucose same color\$8) same	US-PGPUB USPAT;	10:45
		(substrate\$1 or film\$1 or strip\$1)) and	US-PGPUB	10:48
	<u></u>	436/95.ccls.) and gold		

		5 48.	*****	2002/10/07
29	197	((glucose same color\$8) same (substrate\$1	USPAT;	2003/10/07
		or film\$1 or strip\$1)) and 435/14.ccls.	US-PGPUB	10:48
30	15	(((glucose same color\$8) same	USPAT;	2003/10/07
		(substrate\$1 or film\$1 or strip\$1)) and	US-PGPUB	10:48
·		435/14.ccls.) and gold		
31	13	((((glucose same color\$8) same	USPAT;	2003/10/07
		(substrate\$1 or film\$1 or strip\$1)) and	US-PGPUB	10:56
		435/14.ccls.) and gold) not (((glucose		
		same color\$8) same (substrate\$1 or film\$1		
		or strip\$1)) and 436/95.ccls.) and gold)		
32	1	5789255.pn.	USPAT;	2003/10/07
	•	•	US-PGPUB	10:57
33	42437	gold same (film\$1 or substrate\$1)	USPAT;	2003/10/07
		, , , , , , , , , , , , , , , , , , , ,	US-PGPUB	10:57
34	l 0	(gold same (film\$1 or substrate\$1)) same	USPAT;	2003/10/07
	_	lioid\$1	US-PGPUB	10:57
35	120	·	USPAT;	2003/10/07
		lipid\$1	US-PGPUB	10:57
36	1		USPAT;	2003/10/07
	_	lipid\$1) same auric	US-PGPUB	10:57
37	0		USPAT;	2003/10/07
-	_	lipid\$1) same chloroaurate	US-PGPUB	10:58
38	1		USPAT:	2003/10/07
		lipid\$1) same octadecylamine	US-PGPUB	10:58
39	1		USPAT;	2003/10/07
	_	lipid\$1) same arachidic	US-PGPUB	10:58
40	0		USPAT;	2003/10/07
'		lipid\$1) same octadecanol	US-PGPUB	10:58
41	14			2003/10/07
1		lipid\$1) same phospholipid\$1	US-PGPUB	10:58
		TIPICOT, Dame Phospholipicot	OB TOTOD	1 10.00

WEST Search History

DATE: Tuesday, October 07, 2003

Set Name side by side	Query	<u>Hit</u> <u>Count</u>	Set Name result set
DB =	<i>JPAB,EPAB,DWPI,TDBD;</i>	•	
PLUR=	=YES; OP=ADJ	·	
L29	l24 and phosphatidylethanolamine	0	L29
L28	124 and octadecanol	0	L28
L27	124 and arachidic	3	L27
L26	124 and octadecylamine	0	L26
L25	L24 and lipid\$1	19	L25
L24	L23 and (gold or auric or chloroaurate)	18342	L24
L23	substrate\$1 or film\$1	2133569	L23
L22	112 and color\$8	3	L22
L21	112 and (test adj strip\$1)	0	L21
L20	L19 and color\$8	1	L20
L19	112 and (substrate\$1 or film\$1)	36	L19

L18	112 and	0	T 10
	phosphatidylethanolamine	0	L18
L17	112 and octadecanol	0	L17
L16	112 and arachidic	0	L16
L15	112 and octadecylamine	0	L15
L14	112 and octadecylamine	0	L14
L13	L12 and lipid\$1	2	L13
L12	glucose and (gold or auric or chloroaurate)	86	L12
L11	sastry-m-\$.in.	6	L11
L10	phadtare-s-\$.in.	2	L10
L9	L8	0	L9
L8	phadtare-s-/\$.in.	0	L8.
L7	15 and glucose	0	L7
L6	L5 and gold	2	L6
L5	kumar-a-\$.in.	157	L5
L4	12 and glucose	0	L4
L3	L2 and gold	0	L3
L2	gole-\$.in.	22	L2
L1	gole-a-\$.in.	0	L1

END OF SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 07:40:38 ON 07 OCT 2003)
     FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 07:40:52 ON 07 OCT 2003
                E GOLE ANAND/AU
             39 S E1-E5
L1
              2 S L1 AND GLUCOSE
L2
L3
              2 DUP REMOV L2 (0 DUPLICATES REMOVED)
     FILE 'STNGUIDE' ENTERED AT 07:41:47 ON 07 OCT 2003
              0 S L1 AND GOLD
L4
     FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 07:43:09 ON 07 OCT 2003
L5
             12 S L1 AND GOLD
L6
              4 S L5 AND LIPID?
L7
              4 DUP REMOV L6 (0 DUPLICATES REMOVED)
     FILE 'STNGUIDE' ENTERED AT 07:46:25 ON 07 OCT 2003
     FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 07:48:06 ON 07 OCT 2003
               E KUMAR ASHAVANI/AU
             36 S E3-E4
L8
              2 S L8 AND GLUCOSE
L9
L10
             20 S L8 AND GOLD
             3 S L10 AND LIPID?
L11
L12
             17 S L10 NOT L11
L13
             15 DUP REMOV L12 (2 DUPLICATES REMOVED)
                E PHADTARE SUMANT/AU
             18 S E3
L14
             2 S L14 AND GLUCOSE
L15
             10 S L14 AND GOLD
L16
             2 S L16 AND LIPID?
L17
             8 S L16 NOT L17
L18
L19
              7 DUP REMOV L18 (1 DUPLICATE REMOVED)
L20
              4 S L19 NOT L12
                E SASTRY MURALI/AU
L21
            189 S E3
L22
             2 S L21 AND GLUCOSE
             73 S L21 AND GOLD
L23
L24
             10 S L23 AND LIPID?
L25
             10 DUP REMOV L24 (0 DUPLICATES REMOVED)
     FILE 'STNGUIDE' ENTERED AT 08:01:58 ON 07 OCT 2003
     FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 08:10:52 ON 07 OCT 2003
           2449 S GLUCOSE AND (GOLD OR AURIC OR CHLOROAURATE)
L26
L27
            105 S L26 AND LIPID?
L28
             12 S L27 AND SUBSTRATE?
L29
              8 DUP REMOV L28 (4 DUPLICATES REMOVED)
     FILE 'STNGUIDE' ENTERED AT 08:14:35 ON 07 OCT 2003
     FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 08:15:50 ON 07 OCT 2003
L30
              7 S L27 AND FILM?
              4 S L30 NOT L28
L31
L32
              4 DUP REMOV L31 (0 DUPLICATES REMOVED)
L33
              0 S L27 AND OCTADECTLAMINE
             2 S L27 AND OCTADECYLAMINE
L34
L35
             1 S L27 AND ARACHIDIC ACID
L36
             1 S L27 AND OCTADECANOL
L37
             5 S L27 AND COLOR?
```

L38	5	DUP REMOV L37 (0 DUPLICATES REMOVED)
L39	. 1	S GLUCOSE AND COLLODIAL GOLD
L40	24032	S GOLD AND SUBSTRATE?
L41	8834	S L40 AND FILM
L42		S L41 AND (AURIC OR CHLOROAURATE)
L43	9	DUP REMOV L42 (0 DUPLICATES REMOVED)
L44	53	S L41 AND LIPID?
L45	4	S L44 AND OCTADECYLAMINE
L46	4	DUP REMOV L45 (0 DUPLICATES REMOVED)
L47	2	S L44 AND ARACHIDIC ACID
L48	1	S L44 AND OCTADECANOL
L49	0	S L44 AND PHOSPHATIDYLETHANOLAMINE

.

- L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 2001:130744 CAPLUS
- DN 134:357806
- TI Lamellar Langmuir-Blodgett films of hydrophobized colloidal **gold** nanoparticles by organization at the air-water interface
- AU Sastry, M.; Gole, A.; Patil, V.
- CS Materials Chemistry Division, National Chemical Laboratory, Pune, 411 008, India
- SO Thin Solid Films (2001), 384(1), 125-131 CODEN: THSFAP; ISSN: 0040-6090
- PB Elsevier Science S.A.
- DT Journal
- LA English
- The organization of hydrophobically modified colloidal Au nanoparticles at AB the air-H2O interface and the formation thereafter of lamellar, multilayer films of the nanoparticles by the Langmuir-Blodgett (LB) technique is described. The hydrophobization of the Au colloidal particles was accomplished by the electrostatic extn. of carboxylic acid derivatized Au particles (synthesized in an ag. medium, 35 .ANG. in size) from soln. into thermally evapd. fatty amine films by a simple immersion procedure. The acid-base complex formed by the assocn. of the carboxylic acid groups bound to the colloidal particle surface and the amine groups in the lipid matrix gives a strongly-bound hydrophobic sheath of fatty amine mols. around the particles. The colloidal Au particles can thereafter be dissolved in different org. solvents, dried and redispersed repeatedly without significant aggregation of the Au particles. hydrophobic Au particles were dissolved in a spreading solvent and organized on the surface of H2O. The organization of the particles and the formation of multilayer films by the Langmuir-Blodgett technique was followed by surface pressure-area isotherm measurements of the colloidal particle Langmuir monolayer, quartz crystal microgravimetry, UV-visible spectroscopy and FTIR spectroscopy. A close-packed monolayer of the colloidal particles was formed on the surface of H2O and excellent multilayer films of the colloidal nanoparticles can be grown on different supports by sequential transfer by the LB technique.
- RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 2000:122220 CAPLUS
- DN 132:199460
- TI Formation of patterned, heterocolloidal nanoparticle thin films
- AU Sastry, Murali; Gole, Anand; Sainkar, S. R.
- CS Materials Chemistry Division, National Chemical Laboratory, Pune, 411 008, India
- SO Langmuir (2000), 16(7), 3553-3556 CODEN: LANGD5; ISSN: 0743-7463
- PB American Chemical Society
- DT Journal
- LA English
- AB Synthesis of colloidal nanocomposite films by electrostatic self-assembly is carried out by the formation of thin, patterned, heterocolloidal nanoparticle assemblies of gold, silver, and Q-state CdS. These multicomponent colloidal particle films can be grown by a procedure based on blocking electrostatically driven diffusion pathways of charged colloidal particles into ionizable lipid films. The diffusion onto the films appears to be normal to the film surface, and once complete cluster incorporation was achieved, exchange of clusters with other clusters during immersion in different colloidal solns. does not occur. Therefore seamless, multicolloidal particle films can be deposited by this way.
- RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:767304 CAPLUS

TI Time-Dependent Complexation of Cysteine-Capped **Gold**Nanoparticles with Octadecylamine Langmuir Monolayers at the Air-Water
Interface

AU Mayya, K. Murali; Gole, Anand; Jain, Nirmesh; Phadtare, Sumant; Langevin, Dominique; Sastry, Murali

CS Materials Chemistry Division, National Chemical Laboratory, Pune, 411 008, India

data 2003 no ijaod

SO Langmuir ACS ASAP CODEN: LANGD5; ISSN: 0743-7463

PB American Chemical Society

DT Journal

LA English

In this paper, we present time-dependent studies on the complexation of AΒ cysteine-capped gold nanoparticles with octadecylamine (ODA) Langmuir monolayers. The cysteine mols. bound to the colloidal gold surface via thiolate linkages impart a net neg. charge to the particles due to deprotonated carboxylic acid groups. Strong attractive electrostatic interaction between the neg. charged gold nanoparticles and pos. charged ODA monolayer drives the complexation process. The extent of complexation of the gold nanoparticles and subsequent Langmuir-Blodgett (LB) film formation is a function of charge on the particles/monolayer. The charge on the nanoparticles/monolayer may be controlled by simple variation of the subphase pH. At pH 9, the carboxylic acid groups on the particles are highly ionized leading to strong electrostatic attraction with the protonated ODA monolayer, while at pH 12, the ODA monolayer is deprotonated leading to a redn. in the electrostatic interaction. nanoparticle complexation with the ODA Langmuir monolayer has been followed in real time by a host of techniques such as surface pressure-area (.pi.-A) isotherms, pressure-time (.pi.-t) isotherms, Brewster angle microscopy, ellipsometry, and pendant drop analyses. LB films of the nanogold-ODA composites have been characterized by UV-vis spectroscopy, Fourier transform IR spectroscopy, and contact angle measurements. These measurements clearly indicate uniform nanoparticle deposition at pH 9 (pH of max. electrostatic interaction). The LB films of the gold nanoparticles were also tested for thermal stability.

- L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
- AN 2001:765027 CAPLUS
- DN 136:95264
- TI Glucose induced in-situ reduction of chloroaurate ions entrapped in a fatty amine film: formation of gold nanoparticle-lipid composites
- AU Gole, Anand; Kumar, Ashavani; Phadtare, Sumant; Mandale, A. B.; Sastry, Murali
- CS Mat. Chem. Div., National Chem. Lab., Pune, 411 008, India
- PhysChemComm [online computer file] (2001) No pp. given, Paper No. 19 CODEN: PHCCFX; ISSN: 1460-2733

 URL: http://hotdog.rsc.org/ej/qu/2001/b106564e/b106564e.pdf
- PB Royal Society of Chemistry
- DT Journal; (online computer file)
- LA English
- The formation of gold nanoparticle-lipid composite films by glucose-induced redn. of chloroaurate ons entrapped in thermally evapd. fatty amine films is described. Simple immersion of films of the salt of octadecylamine and chloroaurate ions (formed by immersion of thermally evapd. fatty amine films in chloroauric acid soln.) in glucose leads to the facile in-situ redn. of the metal ions to form gold nanoparticles in the he fatty amine matrix. The formation of gold nanoparticles is readily detected by the appearance of a violet color in the film and thus forms the basis of a possible new, gold nanoparticle-based colorimetric sensor for glucose. The formation of the fatty amine salt of chloroauric acid and the subsequent redn. of the metal ions by glucose was followed by quartz crystal microgravimetry, FTIR spectroscopy, x-ray photoemission spectroscopy and TEM measurements.
- RE.CNT 27. THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT